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## Docket No.: TK3690USNA

Serial No.: 10/664,708

## **AMENDMENTS TO THE CLAIMS**

## In the claims:

- (Currently Amended) A nonwoven fabric comprising a support web and a
   <u>hydrophobic</u> fibrous barrier web consisting of fibers having average diameters of
   less than 1.0 micrometer, optionally coated with a hydrophobic material, having a
   hydrohead of between about 145 cm and about 400 cm and a Frazier permeability of
   between about 0.3 m³/m²-min and about 11.2 m³/m²-min.
- 2. (Canceled).
- 3. (Canceled).
- 4. (Previously Presented) The nonwoven fabric of claim 1, wherein said barrier web fibers have average diameters of less than 0.5 micrometer.
- (Previously Presented) The nonwoven fabric of claim 1, wherein the barrier layer basis weight is between about 5 and 51 g/m<sup>2</sup>.
- 6. (Previously Presented) The nonwoven fabric of claim 4, wherein the barrier layer has a basis weight of between about 13 and 51 g/m².
- (Previously Presented) The nonwoven fabric of claim 1, wherein said barrier web comprises nanofibers of hydrophobic polymer or copolymer.
- 8. (Original) The nonwoven fabric of claim 7, wherein said hydrophobic polymer or copolymer is a polyolefin, a partially fluorinated polymer or a perfluorinated polymer.
- (Original) The nonwoven fabric of claim 8, wherein said hydrophobic polymer or copolymer has repeating units derived from ethylene, propylene, butenes, hexenes, octenes, styrenes, 4-methylpentene-1 and combinations thereof.
- (Previously Presented) The nonwoven fabric of claim 1, wherein said barrier web is rendered hydrophobic by coating with said hydrophobic coating.
- (Original) The nonwoven fabric of claim 10, wherein said hydrophobic coating is a fluorocarbon coating material.
- 12. (Previously presented) The nonwoven fabric of claim 1, wherein the barrier web has a maximum pore size between fibers of no more than about 12 micrometers.

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13. (Previously Presented) The nonwoven fabric of claim 1, wherein the barrier web has a solids fraction of no less than about 0.03.

14. (Currently Amended) A nonwoven barrier fabric comprising a <a href="https://hydrophobic">hydrophobic</a> fibrous barrier web consisting of fibers having average diameters of less than 1.0 micrometer, optionally coated with a hydrophobic material, said fabric having a hydrohead of between about 145 cm and about 400 cm and a Frazier permeability of between about 0.3 m³/m²-min and about 11.2 m³/m²-min and having a relationship between barrier web basis weight, and fabric hydrohead and Frazier permeability described by the formula:

$$Bwt(g/m^2) \le \frac{4000 \cdot c \cdot (1 - 2.3 \cdot c) \cdot p_f}{Frazier \cdot Hydrohead^{k(c)}}$$
 wherein

 $\rho_f$  is the density of the barrier fibers, c is the solids volume fraction of the barrier web in units of  $kg/m^3$  ,

$$k(c) = 3.58 \cdot c^2 - 1.32 \cdot c + 1.77$$
,

Frazier is in units of m³/m²-min, and

Hydrohead is in units of centimeters of water column.

- 15. (Previously Presented /Withdrawn) A nonwoven fabric according to one of claims 1 or 14, comprising a structure of fine fiber/mSB, wherein fine fiber is a barrier web.
- (Previously Presented) A nonwoven fabric according to one of claims 1 or 14, comprising a structure of fine fiber /SB, wherein fine fiber is a barrier web.
- 17. (Previously Presented /Withdrawn) A nonwoven fabric according to one of claims 1 or 14, comprising a structure of mSB/fine fiber/mSB, wherein fine fiber is a barrier web.
- 18. (Previously Presented /Withdrawn) A nonwoven fabric according to one of claims 1 or 14, comprising a structure of fine fiber /MB/SB, wherein fine fiber is a barrier web.
- 19. (Previously Presented //Withdrawn) A nonwoven fabric according to one of claims 1 or 14, comprising a structure of SB/MB/fine fiber/MB/SB, wherein-fine fiber is a barrier web.

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20. (Previously Presented /Withdrawn) A nonwoven fabric according to one of claims 1 or 14, comprising a structure of fine fiber /MB/mSB, wherein fine fiber is a barrier web.

- 21. (Previously Presented /Withdrawn) A nonwoven fabric according to one of claims 1 or 14, comprising a structure of mSB/MB/fine fiber/MB/mSB, wherein fine fiber is a barrier web.
- 22. (Previously Presented /Withdrawn) A nonwoven fabric according to one of claims 1 or 14, comprising a structure of SB/MB/fine fiber /SB, wherein fine fiber is a barrier web.
- 23. (Previously Presented) A nonwoven fabric of claim 1, wherein said support web comprises fibers having diameters less than about 20 times the barrier web fiber diameters.
- 24. (Original) The nonwoven fabric of claim 23, wherein said support web fibers have diameters less than about 13 micrometers.